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Automated Report

Technical Report for

Intercontinental Terminals

CARDILCL: Deer Park Release

SGS Job Number: TD40233

Sampling Date: 06/06/19



Report to:

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Total number of pages in report: 19



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

John Watson
Technical Director

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Certifications: TX (T104704220-19-32) AR (14-016-0) AZ (AZ0769) FL (E87628)
KS (E-10366) LA (85695/04004) NJ (TX010) OK (2018-129) VA (10171)

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Test results relate only to samples analyzed.

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Sample Summary

Intercontinental Terminals

Job No: TD40233

CARDILCL: Deer Park Release

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
TD40233-1	06/06/19	15:30	06/06/19	AQ Water	WW-20190606-002-DAY31

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Intercontinental Terminals

Job No TD40233

Site: CARDILCL: Deer Park Release

Report Date 6/10/2019 4:24:51 PM

1 Sample was collected on 06/06/2019 and received intact at SGS North America Inc (SGS) Houston on 06/06/2019 and properly preserved in 1 cooler at 17 Deg C. The sample received an SGS job number of TD40233. A listing of the Laboratory Sample ID, Client Sample ID, and date of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

General Chemistry By Method ASTM D6503-99

Matrix: AQ

Batch ID: MB18180

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 3500CR B-2011

Matrix: AQ

Batch ID: GN98969

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Samples TD40141-2DUP, TD40141-2MS were used as the QC samples for Chromium, Hexavalent.

SGS certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS and as stated on the COC. SGS certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Quality Manual except as noted above. This report is to be used in its entirety. SGS is not responsible for any assumptions of data quality if partial data packages are used.

Monday, June 10, 2019

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Summary of Hits

Job Number: TD40233
Account: Intercontinental Terminals
Project: CARDILCL: Deer Park Release
Collected: 06/06/19



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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TD40233-1 WW-20190606-002-DAY31

No hits reported in this sample.



Houston, TX

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: WW-20190606-002-DAY31
Lab Sample ID: TD40233-1
Matrix: AQ - Water
Project: CARDILCL: Deer Park Release

Date Sampled: 06/06/19
Date Received: 06/06/19
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	06/06/19 18:45	PA	SM 3500CR B-2011
Enterococci	< 1	1	mpn/100ml	1	06/06/19 17:02	MS	ASTM D6503-99

RL = Reporting Limit

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL 713-271-4700 FAX 713-271-4770
www.acutest.com

[illegible]

5.1

TD40233: Chain of Custody
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SGS Sample Receipt Summary

Page 1 of 2

Job Number: TD40233 **Client:** INTERCONTINENTAL TERMINAL CO **Project:** _____
Date / Time Received: 6/6/2019 **Delivery Method:** _____ **Airbill #'s:** _____
No. Coolers: 1 **Therm ID:** IR-4; **Temp Adjustment Factor:** 0;
Cooler Temps (Initial/Adjusted): #1: (17/17);

Cooler Security		<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature		<u>Y or N</u>			
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
2. Cooler temp verification:	_____				
3. Cooler media:	Ice (Bag)				
Quality Control Preservation	<u>Y or N</u>		<u>N/A</u>	<u>WTB</u>	<u>STB</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Sample Integrity - Documentation		<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample Integrity - Condition		<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Condition of sample:	Intact		
Sample Integrity - Instructions		<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

TD40233: Chain of Custody
Page 2 of 3

Sample Receipt Log

Page 2 of 2

Job #: TD40233 Date / Time Received: 6/6/2019 4:55:00 PM Initials: SJ
 Client: INTERCONTINENTAL TERMINAL CO

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TD40233-1	250ml	1	3G	N/P	Note #2 - Preservative check not applicable.	IR-4	17	0	17
1	TD40233-1	Spec Cup	2	MICRO	Na2S2O3	Note #2 - Preservative check not applicable.	IR-4	17	0	17

5.1

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TD40233: Chain of Custody

Page 3 of 3

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD40233
Account: ITCTXDP - Intercontinental Terminals
Project: CARDILCL: Deer Park Release

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN98969	0.010	0.0	mg/l	.1	0.10	102.0	90-108%
Enterococci	MB18180	1	<1	mpn/100ml				

Associated Samples:
Batch GN98969: TD40233-1
Batch MB18180: TD40233-1
(*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD40233
Account: ITCTXDP - Intercontinental Terminals
Project: CARDILCL: Deer Park Release

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN98969	TD40141-2	mg/l	0.0	0.0	0.0	0-11%

Associated Samples:
Batch GN98969: TD40233-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: TD40233
Account: ITCTXDP - Intercontinental Terminals
Project: CARDILCL: Deer Park Release

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN98969	TD40141-2	mg/l	0.0	.1	0.10	104.0	80-120%

Associated Samples:
Batch GN98969: TD40233-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

6.3

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Houston, TX

Section 7

General Chemistry

Raw Data

7

Hexavalent Chromium

Bottle #	Sample #	Sample Absorbance	BKGRD Abs	CCV/CCB Times	Y Values Sample Absorbance	Corr X Values Conc(mg/l)	Final Vol. (ml)	Sam Vol. (ml)	Dilution	Final Conc.	Units	MDL	RDL				
Test Title:		XCr	1														
GN Batch:		GN98969	Method: SM18 CRD														
Analyst:		PA															
Prep Date:		6/6/2019	9:05	18:45	Note: Use 4 for CLP list pointer, 1 for reg. List pointer.												
Analysis Date:		6/6/2019															
Instrument ID:		WC SPEC1															
											Corr. Coef:	0.99875					
Cal. BIK.		0	NA	NA	0.000	0.0000											
0.01		0.011	NA	NA	0.011	0.0100	Slope:										
0.05		0.046	NA	NA	0.046	0.0500											
0.1		0.097	NA	NA	0.097	0.1000	Y intercept:										
0.2		0.176	NA	NA	0.176	0.2000	-0.0019										
0.4		0.389	NA	NA	0.389	0.4000											
		NA	NA				Final Vol.	Sam. Vol.									
		NA	NA				(ml)	(ml)	Dilution	Final Conc.	Units	MDL	RDL				
ICV		0.095	NA	NA	0.095	0.1008	NA	NA	NA	NA	mg/l	0.002	0.010				
ICB		0.000	NA	NA	0.000	0.0020	NA	NA	NA	NA	mg/l	0.002	0.010				
GN98969-MB1		0.000	0.000	NA	0.000	0.0020	25.0	25.0	1	0.002	mg/l	0.002	0.010				
GN98969-B1		0.096	0.000	NA	0.096	0.1019	25.0	25.0	1	0.102	mg/l	0.002	0.010				
1	GN98969-S1	0.098	0.000	NA	0.098	0.1040	25.0	25.0	1	0.104	mg/l	0.002	0.010				
1	GN98969-D1	0.004	0.000	NA	0.004	0.0062	25.0	25.0	1	0.006	mg/l	0.002	0.010				
1	TD40141-2	0.004	0.000	NA	0.004	0.0062	25.0	25.0	1	0.006	mg/l	0.002	0.010				
CCV		0.285	0.000	NA	0.285	0.2985	25.0	25.0	1	0.298	mg/l	0.002	0.010				
CCB		0.000	0.000	NA	0.000	0.0020	25.0	25.0	1	0.002	mg/l	0.002	0.010				
1	TD40233-1	-0.004	0.000	NA	0.000	0.0020	25.0	25.0	1	0.002	mg/l	0.002	0.010				
CCV		0.281	0.000	NA	0.281	0.2943	25.0	25.0	1	0.294	mg/l	0.002	0.010				
CCB		0.000	0.000	NA	0.000	0.0020	25.0	25.0	1	0.002	mg/l	0.002	0.010				

DA u/u u9

ETG06/07/19

SW846 7196A, SM3500 C-D online, SM3500 Cr -B online

GN:

98969

Instrument: WC SPEC1

Analyst: PA

Sources

CONC, mg/L	ABS	
0	0.011	Primary Std. GN171229C
0.010	0.046	2nd Source GN180320B
0.050	0.099	10% H ₂ SO ₄ WC-013-70
0.100	0.176	DiPhenCarb -39
0.200	0.389	Spike Std. -39
0.400		pH Lot No. 4098788

[illegible]

Reviewed by: CW 6/6/19

Laboratory Notebook: WC2017-083

Data Scanned ☐

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Form: GN017-3

SGS

Enterococci

ASTM-D6503-99

MB18180

Quantitray 2000	Lot#: BP006	Exp Date: 2-19-22	Batch		
Dilution Water	Lot#: NR	Exp Date: NA	Pipette ID		
Enterolert Media	Lot#: LP400	Exp Date: 12-18-19	Incubator# 4 e 914-025		
Pos. Control Organism Enterococcus Faecium	Lot#: SMB32-2	Exp Date: 6-30-19	<input checked="" type="checkbox"/> Positive <input type="checkbox"/> Negative		
			ResCl2 Test Strip Lot#: 1-18-18		
Sample ID	Sample Volume mLs	Flourescent Wells Counted	Dilution Factor	Result (MPN/100 mL)	Residual CL2
+	100	49 large 48 small	/	22419.6	
Comments:					
4/-	100	0 large 0 small	/	<1	
Comments:					
-	100	0 large 0 small	/	<1	
Comments:					
D/A	100	0 large 0 small	/	<1	
Comments:					
ID40233-1	100	0 large 0 small	/	<1	<input type="checkbox"/> Pres. <input checked="" type="checkbox"/> Abs.
Comments: no dup					
		large small			<input type="checkbox"/> Pres. <input type="checkbox"/> Abs.
Comments:					
		large small			<input type="checkbox"/> Pres. <input type="checkbox"/> Abs.
Comments: MS 6-6-19					

Form: MB005-06; 02/13/19

*Use the IDEXX Quanti-Tray / 2000 MPN Table to tabulate results. Data Scanned ☐

Analyst / Date / Time Run	6619MS 17:02	Analyst / Date / Time Read	6-7-19 MS 17:02
Peer Review By / Date	06/07/19	Supervisor Signature	ETH

S